

<b>L Number</b>	<b>Hits</b>	<b>Search Text</b>	<b>DB</b>	<b>Time stamp</b>
10	31775	oxide near calcium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/08 11:59
11	1698	(oxide near calcium) and barrier	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/08 11:59
12	208	((oxide near calcium) and barrier) and (dope or doped or doping or dopant)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/08 12:00
13	140	((((oxide near calcium) and barrier) and (dope or doped or doping or dopant)) and (copper or cu)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/08 12:01
14	66	(((((oxide near calcium) and barrier) and (dope or doped or doping or dopant)) and (copper or cu)) and semiconductor	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/08 12:02
15	7	((((((oxide near calcium) and barrier) and (dope or doped or doping or dopant)) and (copper or cu)) and semiconductor) and (oxide near (dope or doping or dopant or doped))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/08 12:08
16	32	oxide near doped near (calcium or ca)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/08 12:15
17	4	"6261963"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/08 12:28
18	5	"6226173"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/08 12:28

19	83	(US-6387806-\$ or US-6368967-\$ or US-6384442-\$ or US-6387754-\$ or US-6355555-\$ or US-6351036-\$ or US-6352921-\$ or US-6309959-\$ or US-6303486-\$ or US-6291876-\$ or US-6291348-\$ or US-6278147-\$ or US-6261963-\$ or US-6203613-\$ or US-6188134-\$ or US-6211066-\$ or US-6171953-\$ or US-6160315-\$ or US-6144050-\$ or US-6117770-\$ or US-6083818-\$ or US-6066892-\$ or US-6077775-\$ or US-6057223-\$ or US-6022808-\$ or US-6037257-\$).did. or (US-5766379-\$ or US-6347049-\$ or US-6329899-\$ or US-6168704-\$ or US-5420612-\$ or US-5232900-\$ or US-5361720-\$ or US-6270835-\$ or US-6207522-\$ or US-4352716-\$ or US-4396458-\$ or US-5985220-\$ or US-4702963-\$ or US-6296942-\$ or US-5546486-\$ or US-4165515-\$ or US-5059583-\$ or US-5116812-\$ or US-5470668-\$ or US-6136444-\$ or US-3710205-\$ or US-6096648-\$ or US-6080529-\$ or US-6194754-\$ or US-4163736-\$ or US-3657784-\$ or US-5298441-\$).did. or (US-3981073-\$ or US-6284325-\$ or US-5031005-\$ or US-5116774-\$ or US-5392306-\$ or US-5118662-\$ or US-6319542-\$ or US-6294835-\$ or US-6059940-\$ or US-4968552-\$ or US-5622608-\$ or US-5959358-\$ or US-6226173-\$).did. or (US-20020076918-\$ or US-20020022335-\$ or US-20020025417-\$ or US-20020025675-\$ or US-20010035581-\$ or US-20010051420-\$ or US-20010036753-\$ or US-20010040238-\$ or US-20020085319-\$ or US-20020070404-\$ or US-20010050531-\$ or US-20010024868-\$).did. or (WO-9402664-\$ or US-5232900-\$ or JP-11040891-\$ or EP-132924-\$ or JP-09167855-\$).did.	USPAT; US-PGPUB; DERWENT	2002/07/08 12:40
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20	0	((US-6387806-\$ or US-6368967-\$ or US-6384442-\$ or US-6387754-\$ or US-6355555-\$ or US-6351036-\$ or US-6352921-\$ or US-6309959-\$ or US-6303486-\$ or US-6291876-\$ or US-6291348-\$ or US-6278147-\$ or US-6261963-\$ or US-6203613-\$ or US-6188134-\$ or US-6211066-\$ or US-6171953-\$ or US-6160315-\$ or US-6144050-\$ or US-6117770-\$ or US-6083818-\$ or US-6066892-\$ or US-6077775-\$ or US-6057223-\$ or US-6022808-\$ or US-6037257-\$).did. or (US-5766379-\$ or US-6347049-\$ or US-6329899-\$ or US-6168704-\$ or US-5420612-\$ or US-5232900-\$ or US-5361720-\$ or US-6270835-\$ or US-6207522-\$ or US-4352716-\$ or US-4396458-\$ or US-5985220-\$ or US-4702963-\$ or US-6296942-\$ or US-5546486-\$ or US-4165515-\$ or US-5059583-\$ or US-5116812-\$ or US-5470668-\$ or US-6136444-\$ or US-3710205-\$ or US-6096648-\$ or US-6080529-\$ or US-6194754-\$ or US-4163736-\$ or US-3657784-\$ or US-5298441-\$).did. or (US-3981073-\$ or US-6284325-\$ or US-5031005-\$ or US-5116774-\$ or US-5392306-\$ or US-5118662-\$ or US-6319542-\$ or US-6294835-\$ or US-6059940-\$ or US-4968552-\$ or US-5622608-\$ or US-5959358-\$ or US-6226173-\$).did. or (US-20020076918-\$ or US-20020022335-\$ or US-20020025417-\$ or US-20020025675-\$ or US-20010035581-\$ or US-20010051420-\$ or US-20010036753-\$ or US-20010040238-\$ or US-20020085319-\$ or US-20020070404-\$ or US-20010050531-\$ or US-20010024868-\$).did. or (WO-9402664-\$ or US-5232900-\$ or JP-11040891-\$ or EP-132924-\$ or JP-09167855-\$).did.) and ("barrier layer" near (anneal or annealed or annealing))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/08 12:42
21	98	("barrier layer" near (anneal or annealed or annealing))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/08 12:52
22	7	((("barrier layer" near (anneal or annealed or annealing)))) and ibm	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/08 12:54

23	14	<p>((US-6387806-\$ or US-6368967-\$ or US-6384442-\$ or US-6387754-\$ or US-6355555-\$ or US-6351036-\$ or US-6352921-\$ or US-6309959-\$ or US-6303486-\$ or US-6291876-\$ or US-6291348-\$ or US-6278147-\$ or US-6261963-\$ or US-6203613-\$ or US-6188134-\$ or US-6211066-\$ or US-6171953-\$ or US-6160315-\$ or US-6144050-\$ or US-6117770-\$ or US-6083818-\$ or US-6066892-\$ or US-6077775-\$ or US-6057223-\$ or US-6022808-\$ or US-6037257-\$).did. or (US-5766379-\$ or US-6347049-\$ or US-6329899-\$ or US-6168704-\$ or US-5420612-\$ or US-5232900-\$ or US-5361720-\$ or US-6270835-\$ or US-6207522-\$ or US-4352716-\$ or US-4396458-\$ or US-5985220-\$ or US-4702963-\$ or US-6296942-\$ or US-5546486-\$ or US-4165515-\$ or US-5059583-\$ or US-5116812-\$ or US-5470668-\$ or US-6136444-\$ or US-3710205-\$ or US-6096648-\$ or US-6080529-\$ or US-6194754-\$ or US-4163736-\$ or US-3657784-\$ or US-5298441-\$).did. or (US-3981073-\$ or US-6284325-\$ or US-5031005-\$ or US-5116774-\$ or US-5392306-\$ or US-5118662-\$ or US-6319542-\$ or US-6294835-\$ or US-6059940-\$ or US-4968552-\$ or US-5622608-\$ or US-5959358-\$ or US-6226173-\$).did. or (US-20020076918-\$ or US-20020022335-\$ or US-20020025417-\$ or US-20020025675-\$ or US-20010035581-\$ or US-20010051420-\$ or US-20010036753-\$ or US-20010040238-\$ or US-20020085319-\$ or US-20020070404-\$ or US-20010050531-\$ or US-20010024868-\$).did. or (WO-9402664-\$ or US-5232900-\$ or JP-11040891-\$ or EP-132924-\$ or JP-09167855-\$).did.) and ibm</p> <p>0 ("(copper near (interconnect or interconnection)) and barrier and (dielectric or insulating) and (layer or film) and divalent and ion and (dopant or doped or doping or dope)").PN.</p> <p>1 (copper near (interconnect or interconnection)) and barrier and (dielectric or insulating) and (layer or film) and divalent and ion and (dopant or doped or doping or dope)</p>	<p>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</p> <p>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</p>	<p>2002/07/08 12:56</p> <p>2002/07/05 12:31</p> <p>2002/07/05 12:41</p>
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-	71	(copper near (interconnect or interconnection)) and barrier and (dielectric or insulating) and (layer or film) and (beryllium or magnesium or calcium or strontium or barium) and (dopant or doped or doping or dope)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 12:43
-	67	((copper near (interconnect or interconnection)) and barrier and (dielectric or insulating) and (layer or film) and (beryllium or magnesium or calcium or strontium or barium) and (dopant or doped or doping or dope)) and ("barrier layer" or "barrier film")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 12:43
-	60	((((copper near (interconnect or interconnection)) and barrier and (dielectric or insulating) and (layer or film) and (beryllium or magnesium or calcium or strontium or barium) and (dopant or doped or doping or dope)) and ("barrier layer" or "barrier film")) and ("dielectric layer" or "dielectric film" or "insulating layer" or "insulating film"))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 12:46
-	0	(((((copper near (interconnect or interconnection)) and barrier and (dielectric or insulating) and (layer or film) and (beryllium or magnesium or calcium or strontium or barium) and (dopant or doped or doping or dope)) and ("barrier layer" or "barrier film")) and ("dielectric layer" or "dielectric film" or "insulating layer" or "insulating film")) and (oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 12:52
-	426	oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:04
-	204	(oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium)) and "barrier layer"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:06
-	101	((oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium)) and "barrier layer") and (copper or cu)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:06
-	54	((((oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium)) and "barrier layer") and (copper or cu)) and (dielectric or insulating) and (layer or film)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:06

-	512	oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium or Be or Mg or Ca or St or Ba)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:37
-	256	(oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium or Be or Mg or Ca or St or Ba)) and "barrier layer"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:06
-	137	((oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium or Be or Mg or Ca or St or Ba)) and "barrier layer") and (copper or cu)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:06
-	66	((((oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium or Be or Mg or Ca or St or Ba)) and "barrier layer") and (copper or cu)) and (dielectric or insulating) and (layer or film))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:07
-	1	(((((oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium or Be or Mg or Ca or St or Ba)) and "barrier layer") and (copper or cu)) and (dielectric or insulating) and (layer or film)) and ("copper interconnect" or "cu interconnect" or "copper interconnection" or "cu interconnection"))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:08
-	0	(((((oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium or Be or Mg or Ca or St or Ba)) and "barrier layer") and (copper or cu)) and (dielectric or insulating) and (layer or film)) and ("copper interconnect" or "cu interconnect" or "copper interconnection" or "cu interconnection"))) and (oxide near barrier near (beryllium or magnesium or calcium or strontium or barium or Be or Mg or Ca or St or Ba))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:38
-	1	(((((oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium or Be or Mg or Ca or St or Ba)) and "barrier layer") and (copper or cu)) and (dielectric or insulating) and (layer or film)) and ("copper interconnect" or "cu interconnect" or "copper interconnection" or "cu interconnection"))) and (oxide near5 barrier near5 (beryllium or magnesium or calcium or strontium or barium or Be or Mg or Ca or St or Ba))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:39

-	4	(((oxide near10 barrier near10 (beryllium or magnesium or calcium or strontium or barium or Be or Mg or Ca or St or Ba)) and "barrier layer") and (copper or cu)) and (dielectric or insulating) and (layer or film)) and (oxide near barrier near (beryllium or magnesium or calcium or strontium or barium or Be or Mg or Ca or St or Ba))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:49
-	2336	"divalent ion"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:51
-	17	"divalent ion" and "barrier layer"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:52
-	2	("divalent ion" and "barrier layer") and ("barrier layer" near10 "divalent ion")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:54
-	8	("barrier layer" near oxide near (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:56
-	29	("barrier layer" near2 oxide near2 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 13:59
-	52	("barrier layer" near3 oxide near3 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:02
-	75	("barrier layer" near4 oxide near4 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:03
-	102	"copper interconnect structure" and "barrier layer"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:04
-	67	("copper interconnect structure" and "barrier layer") and (magnesium or mg or beryllium or be or calcium or ca or strontium or st or barium or ba)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:05

-	11	("copper interconnect structure" and "barrier layer") and (barrier near10 (magnesium or mg or beryllium or be or calcium or ca or strontium or st or barium or ba))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:09
-	0	"silicon oxide layer doped with"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:10
-	258	"silicon oxide layer" near doped	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:12
-	56	"silicon oxide layer" adj doped	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:12
-	1	("silicon oxide layer" adj doped) near10 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:14
-	1	("silicon oxide layer" adj doped) near20 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:16
-	5	("silicon oxide" adj doped) near20 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:17
-	6	("silicon oxide" near doped) near20 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:19
-	23	("silicon oxide" near5 doped) near20 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:21
-	1045	("oxide" near5 doped) near20 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:21



-	307	("oxide" near doped) near20 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:22
-	234	("oxide" near doped) near10 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:22
-	85	((("oxide" near doped) near10 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)) and (copper or cu))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:23
-	7	((("oxide" near doped) near10 (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)) and (copper or cu)) and barrier	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:23
-	235	("copper interconnect" or "copper interconnection" or "cu interconnect" or "cu interconnection") and ("barrier layer" or "barrier film") and (dope or dopant or doping or doped) and (copper or cu) and (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:26
-	17	((("copper interconnect" or "copper interconnection" or "cu interconnect" or "cu interconnection") and ("barrier layer" or "barrier film") and (dope or dopant or doping or doped) and (copper or cu) and (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)) and ("second barrier layer" or "second barrier film"))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:33
-	211	("second barrier layer" or "second barrier film") near (comprised or formed or includes)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:36
-	7	((("second barrier layer" or "second barrier film") near (comprised or formed or includes)) and ((("second barrier layer" or "second barrier film") near (comprised or formed or includes)).ti,clms.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:38
-	7	((("second barrier layer" or "second barrier film") near (comprised or comprising or formed or includes)).ti,clms.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:40

-	8	(("second barrier layer" or "second barrier film") near5 (comprised or comprising or formed or includes)).ti,clms.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:41
-	1323	(("barrier layer" or "barrier film") near5 (comprised or comprising or formed or includes)).ti,clms.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:43
-	621	(("barrier layer" or "barrier film") near (comprised or comprising or formed or includes)).ti,clms.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:44
-	17	((("barrier layer" or "barrier film") near (comprised or comprising or formed or includes)).ti,clms.) and (copper or cu) and (beryllium or magnesium or calcium or strontium or barium or be or mg or ca or st or ba)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:46
-	1	6207522.URPN.	USPAT	2002/07/05 14:50
-	18	("3481781"   "4277525"   "4501602"   "4645524"   "5043002"   "5079069"   "5152819"   "5154744"   "5155655"   "5161086"   "5261153"   "5347258"   "5356672"   "5410107"   "5454847"   "5466892"   "5652021"   "5670262").PN.	USPAT	2002/07/05 14:51
-	61	4702963.URPN.	USPAT	2002/07/05 14:51
-	1	6136444.URPN.	USPAT	2002/07/05 14:52
-	2	"copper interconnect structure" and ("barrier layer" or "barrier film") and (copper or cu) and (beryllium or magnesium or calcium or strontium or barium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:55
-	2	"copper interconnect structure" and ("barrier layer" or "barrier film") and (beryllium or magnesium or calcium or strontium or barium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:57
-	95	"copper interconnect" and ("barrier layer" or "barrier film") and (beryllium or magnesium or calcium or strontium or barium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 14:59
-	88	("copper interconnect" and ("barrier layer" or "barrier film") and (beryllium or magnesium or calcium or strontium or barium)) and (dielectric or insulating)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:02

-	6	((("copper interconnect" and ("barrier layer" or "barrier film") and (beryllium or magnesium or calcium or strontium or barium)) and (dielectric or insulating)) and (beryllium or be)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:03
-	52	((("copper interconnect" and ("barrier layer" or "barrier film") and (beryllium or magnesium or calcium or strontium or barium)) and (dielectric or insulating)) and (magnesium or mg)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:04
-	0	((("copper interconnect" and ("barrier layer" or "barrier film") and (beryllium or magnesium or calcium or strontium or barium)) and (dielectric or insulating)) and ((doped or dopant or doping or dope) near (magnesium or mg))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:04
-	7	((("copper interconnect" and ("barrier layer" or "barrier film") and (beryllium or magnesium or calcium or strontium or barium)) and (dielectric or insulating)) and ((doped or dopant or doping or dope) near5 (magnesium or mg))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:06
-	19	((("copper interconnect" and ("barrier layer" or "barrier film") and (beryllium or magnesium or calcium or strontium or barium)) and (dielectric or insulating)) and ((barrier layer) near5 (magnesium or mg))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:07
-	21	((("copper interconnect" and ("barrier layer" or "barrier film") and (beryllium or magnesium or calcium or strontium or barium)) and (dielectric or insulating)) and ((barrier layer) near (magnesium or mg))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:07
-	1	((("copper interconnect" and ("barrier layer" or "barrier film") and (beryllium or magnesium or calcium or strontium or barium)) and (dielectric or insulating)) and ((("barrier layer") near (magnesium or mg))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:09
-	2	6261963.URPN.	USPAT	2002/07/05 15:09
-	34	((("barrier layer") near (magnesium or mg))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:14
-	5	((("barrier layer") near (beryllium or be))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:16
-	8	((("barrier layer") near (calcium or ca))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:18

-	4	("barrier layer") near (strontium))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:18
-	13	("barrier layer") near (barium))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:20
-	20	("barrier layer") near5 (beryllium))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:23
-	98	("barrier layer") near5 (magnesium))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:23
-	52	((("barrier layer") near5 (magnesium))) near5 (oxide or doped or dopant or doping or dope)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:26
-	13	((("barrier layer") near5 (magnesium))) near5 (oxide or doped or dopant or doping or dope)) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:28
-	69	("barrier layer" or "barrier film") and ("silicon oxide" or "silicon dioxide") and ((doped or doping or dope or dopant) near (beryllium or magnesium or calcium or strontium or barium))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:34
-	31	("barrier layer" or "barrier film") and ("silicon oxide" or "silicon dioxide") and ((doped or doping or dope or dopant) near (beryllium or magnesium or calcium or strontium or barium))) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:31
-	3	("barrier layer" or "barrier film") and ("silicon oxide" or "silicon dioxide") and (((doped or doping or dope or dopant) near (beryllium or magnesium or calcium or strontium or barium)) same "barrier layer") and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:36
-	365	((beryllium or magnesium or calcium or strontium or barium) same "barrier layer") and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:37

-	17	((beryllium or magnesium or calcium or strontium or barium) near "barrier layer") and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:40
-	87	((beryllium or magnesium or calcium or strontium or barium) near5 "barrier layer") and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:42
-	36	((beryllium or magnesium or calcium or strontium or barium) near5 "barrier layer" near5 oxide) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:47
-	20	((("copper interconnect" or "copper interconnection") and ("barrier layer" or "barrier film" or "buffer layer" or "buffer film")).ti,clms.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:50
-	81	((("copper interconnect" or "copper interconnection") and ("barrier layer" or "barrier film" or "buffer layer" or "buffer film")) and ("insulating layer" or "dielectric layer" or "insulating film" or "dielectric film") and (beryllium or magnesium or calcium or strontium or barium) and (dioxide or oxide)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:52
-	3	((("copper interconnect" or "copper interconnection") and ("barrier layer" or "barrier film" or "buffer layer" or "buffer film")) and ("insulating layer" or "dielectric layer" or "insulating film" or "dielectric film") and (beryllium or magnesium or calcium or strontium or barium) and (dioxide or oxide)) and beryllium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 15:53
-	45	((("copper interconnect" or "copper interconnection") and ("barrier layer" or "barrier film" or "buffer layer" or "buffer film")) and ("insulating layer" or "dielectric layer" or "insulating film" or "dielectric film") and (beryllium or magnesium or calcium or strontium or barium) and (dioxide or oxide)) and magnesium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 16:01
-	14	((("copper interconnect" or "copper interconnection") and ("barrier layer" or "barrier film" or "buffer layer" or "buffer film")) and ("insulating layer" or "dielectric layer" or "insulating film" or "dielectric film") and (beryllium or magnesium or calcium or strontium or barium) and (dioxide or oxide)) and calcium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 16:03

-	33	((("copper interconnect" or "copper interconnection") and ("barrier layer" or "barrier film" or "buffer layer" or "buffer film")) and ("insulating layer" or "dielectric layer" or "insulating film" or "dielectric film") and (beryllium or magnesium or calcium or strontium or barium) and (dioxide or oxide)) and strontium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 16:09
-	33	((("copper interconnect" or "copper interconnection") and ("barrier layer" or "barrier film" or "buffer layer" or "buffer film")) and ("insulating layer" or "dielectric layer" or "insulating film" or "dielectric film") and (beryllium or magnesium or calcium or strontium or barium) and (dioxide or oxide)) and barium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 16:12
-	6	"barrier layer" near calcium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 16:18
-	6	("barrier layer" or "barrier film") near calcium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 16:19
-	10	("barrier layer" or "barrier film") near (calcium or ca)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 16:31
-	75	("barrier layer" or "barrier film") near5 (calcium or ca)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 16:32
-	1	((("barrier layer" or "barrier film") near5 (calcium or ca)) and copper and (interconnect or interconnection) and (dielectric or insulating)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 16:33
-	1	copper and (interconnect or interconnection) and (dielectric or insulating) and (barrier near5 calcium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 16:37
-	3	copper and (interconnect or interconnection) and (dielectric or insulating) and (barrier near10 calcium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 16:41

-	13	copper and (interconnect or interconnection) and (dielectric or insulating) and (barrier near5 magnesium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/07/05 16:42
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